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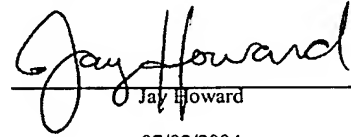
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: William A. Goldman et al.
Serial No.: 10/668,788
Date Filed: September 23, 2003
Group Art Unit: 2123
Title: ***Method of Assaying Downhole Occurrences and Conditions***

EV352394394US

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express mail No. EV352394394US in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.


Jay Howard
07/02/2004
Date

Dear Sir or Madam:

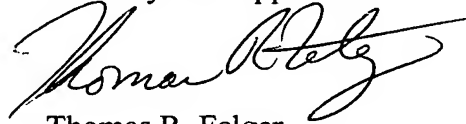
INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form, and previously cited in U.S. Application Serial No. 10/133,078, filed April 26, 2002, by William A. Goldman et al., and entitled ***Method of Assaying Downhole Occurrences and Conditions***, be considered and cited in the examination of the above-identified continuation application. Pursuant to 37 C.F.R. §1.98(d), copies of the references are not being furnished. Furthermore, pursuant to 37 C.F.R. §§1.97(g) and (h), no representation is made that these references are material to the patentability of the present application.

Applicants believe no fees are due; however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 50-2148 of Baker Botts L.L.P. in order to effectuate this filing.

Respectfully submitted,

BAKER BOTTS L.L.P.
Attorneys for Applicants



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Reg. No. 28,842

Date: 29 JUNE 2004

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PTO-1449 Information Disclosure Citation in an Application		Application No. 10/668,788		Applicant(s) William A. Goldman et al.	
		Docket Number 074263.0171 063718.0282 (Old Number)		Group Art Unit 2123	Filing Date September 23, 2003

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
.	A.	1209299	12/19/16	Hughes	--	--	12/30/16
	A.	1263802	04/23/18	Reed	--	--	08/13/17
.	B.	1394769	10/25/21	Sorensen	--	--	05/18/20
	C.	3593807	7/71	Klima	173	6	
	B.	3660649	5/72	Gilchrist et al.	235	193	09/28/70
	D.	3761701	9/73	Wilder et al.	235	193	07/14/71
	E.	3971449	7/76	Nylund et al.	173	11	--
	C.	4056153	11/01/97	Miglierini	175	376	07/16/76
	F.	4195699	4/80	Rogers et al.	713	177	--

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	G.	0384734A	08/29/90	EP	E21B	10/16	X	
	H.	2241266	08/28/91	GB	E21B	10/46	X	
	I.	2328966	3/10/99	GB	E21B	10/16	X	
	J.	2343905	5/24/00	GB	E21B	10/16	X	

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	K. European Search Report for EP03021140.3; 6 pages	02/04/2004
	L. French Preliminary Report for application no. FR 0203948. 5pages	11/21/2003
	M. Howell Word and Marvin Fisbeck, "Drilling Parameters And The Journal Bearing Carbide Bit", Drilling—DCW, , first published Oct. 1979 in Tulsa, Oklahoma pp. 92-93.	01/1980
	N. Michael A. Simpson, Sr., "Hand-Held Calculator Program Helps Optimize Drilling", World Oil, pp. 97-101	04/1984
	O. E.C. Onyia, "Relationships between Formation Strength, Drilling Strength, and Electric Log Properties", SPE Drilling Engineering, pp. 605-618	10/1988
	P. Brochure entitled: "Twist & Shout", Smith International, Inc., (SB2255.1001), 4 pages.	Printed 06/2004
	Q. Foucault, Hubert et al., "An Integrated Drilling Optimazation for Faster and Higher Improvements in Oseberg South", Halliburton Energy Services; Hydro, 8 pages.	2003

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4354233	10/82	Zhukovsky et al.	173	6	--
	B.	4407017	9/83	Zhilikov et al.	173	6	--
	C.	4479176	10/84	Grimshaw	700	28	02/08/82
	A.	4617825	10/86	Ruhovets	73	152.05	09/12/85
	B.	4646240	02/87	Serra et al.	364	422	04/07/86
	D.	4685329	8/87	Burgess	175	39	--
	C.	4718011	01/88	Patterson, Jr.	364	422	11/24/86
	D.	4793421	12/88	Jasinski	175	27	07/13/87
	E.	4794534	12/88	Millheim	175	40	08/08/85
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	F.	2360304	9/19/01	GB	E21B	10/16	X -
	G.	2363144	12/12/01	GB	E21B	10/16	X -
	H.	2363145	12/12/01	GB	E21B	10/16	X -
	I.	2363146	12/12/01	GB	E21B	10/16	X -
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	J.	Geir Hareland and L.L. Hoberock, "Use of Drilling Parameters to Predict In-Situ Stress Bounds", SPE/IADC 25727, pp. 457-471					02/1993
	K.	R.V. Barragan, O.L.A. Santos and E.E. Maidla, "Optimization of Multiple Bit Runs", SPE/IADC 37644, pp. 579-589					03/04/1977
	L.	R.K. Bratli, G. Hareland, F. Stene, G.W. Dunsaed and G. Gjelstad, "Drilling Optimization Software Verified in the North Sea", SPE 39007, 7 pages					08/1997
	M.	G. Gjelstad, G. Hareland, K.N. Nikolaisen and R.K. Bratli, "The Method of Reducing Drilling Costs More Than 50 Percent", SPE 47342, 7 pages					07/1998
	N.	M.B. Ziaja and J.C. Roegiers, "Lithology Diagnosis Based on the Measurements of Drilling Forces and Moments at the Bit", IADC/SPE 47799, pp. 185-194					09/1998
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U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4794535	12/88	Gray et al.	364	420	08/18/86
	B.	4852399	08/89	Falconer	73	151.5	07/13/88
	A.	4875530	10/89	Frink et al.	175	27	03/24/89
	C.	4876886	10/89	Bible et al.	73	151.5	04/04/88
	D.	4916616	04/90	Freedman et al.	364	422	12/08/86
	B.	4926950	05/90	Zijsling	175	39	--
	E.	4928521	05/90	Jardine	73	152.43	03/27/89
	F.	5010789	4/91	Brett et al.	76	108.2	10/06/89
	G.	5216612	06/93	Cornett et al.	364	468	07/16/90

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	C.	2364083	1/16/02	GB	E21B	10/16	X	-
	D.	2365899	2/27/02	GB	E21B	10/16	X	-
	E.	2370059	6/19/02	GB	E21B	10/16	X	-
	F.	2370060	6/19/02	GB	E21B	10/16	X	-

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
G.	H. Xu, T. Hatakeyama, T. Yonezawa and A. Suzuki, "Evaluation of Bit Performance Using an Advanced Drilling-Test System", IADC/SPE 47809, pp. 247-252	09/1998
H.	H.I. Bilgesu, U. Altmis, S. Ameri, S. Mohaghegh and K. Aminian, "A New Approach to Predict Life Based on Tooth or Bearing Failures", SPE 51082, pp. 253-257	11/1998
I.	E.T. Koskie, Jr., P. Slagel and W. Lesso, Jr., "Monitoring MWD Torque Improved PDC Bit Penetration Rates", World Oil, pp. 61-67	1998
J.	K.K. Millheim, "The Role of the Simulator in Drilling Operations", SPE Drilling Engineering	10/1986
K.		

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	A.	5216917	6/93	Detournay	175	39	--
	A.	5239467	08/93	Kelly et al.	364	421	02/19/92
	B.	5251286	10/93	Wiener et al.	395	22	03/16/92
	B.	5334833	08/94	Case et al.	250	270	06/14/91
	C.	5369570	11/94	Parad	364	401	11/14/91
	D.	5416697	05/95	Goodman	364	422	07/31/92
	E.	5458207	10/95	Mattero	175	27	04/21/92
	F.	5461562	10/95	Tabanou et al.	364	422	06/21/94
	C.	5539704	07/96	Doyen et al.	367	73	06/23/95
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	D.	2371321	7/24/02	GB	E21B	10/16	X -
	E.	2371366 A	07/24/02	GB	E21B	44/00	X
	F.	470593	8/75	SU	-	-	X
	G.	726295	4/80	SU	-	-	X
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	H.	Dr. Alan J. Scott, "Online Animations of Time Evolving Physical Systems", Depart of Physics, University of Wisconsin-Stout					Printed 05/04/04
	I.	G. Martin Milner and Glen Corser, "Data Processing and Interpretation While Drilling", AADE National Drilling Technical Conference					2001
	J.	Jim O'Hare and Osarumwense O.A. Aigbekaen Jr., "Design Index: A Systematic Method of PDC Drill-Bit Selection", IADC World Drilling					2000
	K.	J Booth and M.M. Cook, "Meeting Future Drilling Planning and Decision Support Requirements: A New Drilling Simulator", SPE/IADC Drilling Conference					2001
	L.	P.R. Rampersad, G. Hareland and P. Boonyapaluk, "Drilling Optimization Using Drilling Data and Available Technology", Society of Petroleum Engineers, Inc.					1994
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5660239	08/97	Mueller	175	61	09/27/93
	B.	5704436	1/98	Smith et al.	175	27	03/25/96
	A.	5767399	6/98	Smith et al.	702	10	--
	B.	5794720	8/98	Smith et al.	-	-	--
	C.	5845258	12/98	Kennedy	705	8	06/16/95
	C.	5963910	10/99	Ulwick	705	7	09/20/96
	D.	5965810	10/99	Holbrook	166	254	--
	E.	6021859	2/00	Tibbitts et al.	175	431	--
	F.	6026912	2/22/00	King et al.	-	-	--

FOREIGN PATENT DOCUMENTS								
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	G.	1716112	2/92	SU	-	-		X
	H.	1654515	03/29/88	SU	E21B	10/16	X	
	I.	1691497	05/30/88	SU	E21B	10/16	X	
	J.	91/14214	9/19/91	WO	G05B	19/18	X	

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
K.	Joe Kelly, Jr., "Use break-Even Analysis to Optimize Bit Runs", World Oil, pp. 75-79	11/1992
L.	W.W. Reynolds, " <i>Economic Analysis of Drilling Plans and Contractors by Use of a Drilling Systems Approach</i> ", Journal of Petroleum Technology, XP-002261288, pages 787-793	07/1986
M.	M.R. Fassihi et al., " <i>Risk Management for the Development of an Offshore Prospect</i> ", SPE 52975, XP-002261289, pages 1-6	03/20/1999
N.	I.C. Pallister et al., "Asset Optimization Using Multiple Realizations and Streamline Simulation", Society of Petroleum Engineers – SPE 59460	06/25/00
O.	Tom H. Hill et al., " <i>Drilling Optimization: Practice makes perfect</i> ", World Oil vol. 220, no. 4, XP-000831749, pages 63-64, 66, and 68.	04/1999

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	6044327	03/28/00	Goldman	702	11	--
	B.	6052649	04/18/00	Goldman et al.	702	11	05/18/98
	C.	6109368	8/00	Goldman et al.	175	39	--
	D.	6131673	10/17/00	Goldman et al.	175	40	03/26/98
	E.	6155357	12/5/00	King et al.	-	-	--
	F.	6169967	01/02/01	Dahlem et al.	703	10	09/04/98
	G.	6233498	5/15/01	King et al.	-	-	--
	H.	6276465	8/21/01	Cooley et al.	-	-	--
	I.	6374926	04/23/02	Goldman et al.	175	39	06/21/00
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	J.	1020253	11/14/03	NL	-	-	X
	K.						
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	L.	Ali G. Kadaster et al., " <i>Drilling Time Analysis-A TQM Tool For Drilling in the '90s</i> ", Petroleum Engineer International vol. 65, no. 2, XP 000349995, pages 31-32, 35-38					02/1993
	M.	Wilson C. Chin, " <i>Wave Propagation in Petroleum Engineering</i> " (1994)					1994
	N.	Adam T. Bourgoyne Jr et. al., " <i>Applied Drilling Engineering</i> ", Society of Petroleum Engineers Textbook Series (1991)					1991
	O.	J. P. Nguyen, " <i>Oil and Gas Field Development Techniques: Drilling</i> " (translation 1996, from French original 1993)					1996
	P.	" <i>Making Hole</i> ", part of Rotary Drilling Series, edited by Charles Kirkley (1983)					1983
	Q.	" <i>Drilling Mud</i> ", part of Rotary Drilling Series, edited by Charles Kirkley (1984)					1984
	R.						
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	A.	6389360	5/02	Alft et al.	702	9	--
	B.	6408953	06/25/02	Goldman et al.	175	39	08/28/00
	C.	6424919	7/23/02	Moran et al.	-	-	--
	D.	6612382	09/02/03	King	175	40	03/28/01
	E.	2002/0120401	9/01	Macdonald et al.	702	6	--
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							YES NO
	F.						
	G.						
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	H.	H.G. Benson, "Rock Bit Design, Selection and Evaluation", presented at the spring meeting of the pacific coast district, American Petroleum Institute, Division of Production, Los Angeles, May, (1956)					05/1956
	I.	J.C. Estes, "Selecting the Proper Rotary Rock Bit", Journal of Petroleum Technology, Nov., (1971), pp1359-1367					11/1971
	J.	Sikarskie, et. al., "Penetration Problems in Rock Mechanics", American Society of Mechanical Engineers, Rock Mechanics Symposium, (1973)					1973
	K.	Dykstra, et. al., "Experimental Evaluations of Drill String Dynamics", Amoco Report Number SPE 28323, (1994)					1994
	L.	Kenner and Isbell, "Dynamic Analysis Reveals Stability of Roller Cone Rock Bits", SPE 28314, (1994)					1994
	M.	Bassiouni, Z., "Theory, Measurement, and Interpretation of Well Logs"; Richardson, TX 1994; 23 pgs.					1994
	N.	Computer Processing of Log Data Improves Production in Chaveroo Field; pp. 889-895; <i>Journal of Petroleum Technology</i>					07/1967
	O.	Doveton, J.D. et al., "Fast Matrix Methods for the Lithological Interpretation of Geophysical Logs", Geomathematical and Petrophysical Studies in Sedimentology; 17 pgs.					07/1978
	P.	Doveton, John D.; "Geologic Log Analysis Using Computer Methods" <i>AAGP Computer Applications in Geology</i> , No. 2; 30 pgs.					1994
	Q.	Harris, Martin H et al., "A Computer-Oriented Generalized Porosity-Lithology Interpretation of Neutron, Density and Sonic Log", 10 pgs.					02/1971
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	A.	4096385	06/78	Marett	702	8	--
	B.	4903527	02/90	Herron	702	8	--
	C.	5205164	04/93	Steiger et al.	702	9	--
	D.	5330016	07/94	Paske et al.	-	-	--
	A.						
	B.						
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	E.						
NON-PATENT DOCUMENTS							
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	F.	Rider, Malcom; <i>The Geological Interpretation of Well Logs</i> , Second Edition; Gulf Publishing, Houston, 35 pgs.					1996
	G.	Schlumberger Log Interpretation Principles/Applications: <i>Schlumberger Educational Services</i> ; 15 pgs.					1991
	H.	Dewan, John T.; "Essentials of Moder Open-Hole Log Interpretation", pp. 210227, NL Industries Inc.					1983
	I.	Franco, Victor Hugo, "Introduction to Wireline Log Analysis", Western Atlas International, Houston; pp 185-231					1992
	J.	Crain, E.R.; "The Log Analysis Handbook, Volume One: Quantative Log Analysis Methods", PennWell, Tulsa, OK					1986
	K.	Prammer, M.G. et al., "Measurements of Clay-Bound Water and Total Porosity by Magnetic Resonance Logging", SPE paper 36522					1996
	L.	Oort, Eric Van, "Physico-Chemical Stabilization of Shales", SPE paper 37623					1996
	M.	Smith, L. et al., "Successful Field Application of an Electro-Negative 'Coating' to Reduce Bit Balling Tendencies in Water Based Mud", SPE/IADC paper 35110					1996
	N.	Glover, et al., "New Advances and Applications of Combining Simulation and Optimization", Proc. Winter Simulation Conference, pp. 144-152					12/1996
	O.	Hill et al., "Intelligent Drilling System for Geological Sensing", Proc. Of the IEEE/RSJ Int. Conf. On Intelligent Robots and Systems, Vol. 1, pp. 495-501					07/1993
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	G.						
NON-PATENT DOCUMENTS							
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	H.	Hancke et al., "A Control System for Optimizing Deep Hole Drilling Conditions", Proc. IECON Inter. Conf. On Industrial Electronics, Control and Instrument", vol. 3, pp. 2279-2284.					11/1991
	I.	Murphy, Don; "Selecting the Right Rotary Bit is the Place to Smart Cutting Costs", The Oils & Gas Journal, pp. 88-92.					02/03/69
	J.	Jackson, R.A.; "Cost/Foot: Key to Economic Selection of Rock Bits", World Oil, pp. 83-85.					06/1972
	K.	Estes, Jack C.; "Guidelines for Selecting Rotary Insert Rock Bit", Petroleum Engineer, pp. 30-34.					09/1974
	L.	Chambers, Robert et al., "Drilling Man's Guide to Better Bit Selection", Petroleum Engineer, pp. 100-108.					06/1982
	M.	Novig, T., "Factors Affecting Rock Bit Selection", Oil Gas Magazine					04/1988
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			10/668,788		William A. Goldman et al.		
			Docket Number 074263.0171 063718.0282 (Old Number)		Group Art Unit 2123	Filing Date September 23, 2003	

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